S/109/62/007/002/024/024 D256/D303

Energy spectrum of slow secondary ....

the energy spectra of the slow secondary electrons for various thicknesses 0. The spectra are different in character using silicon and beryllium backing; for silicon two peaks appear at a thickness of barium  $\theta \simeq$  1 to 2 atomic layers, and at  $\theta = \lambda =$  12 atomic layers the shape of the spectrum is that of pure barium ( $\lambda =$  zone of emission of slow electrons in barium); for beryllium backing the peaks are absent. This pattern is explained by the relative magnitudes of the secondary electron emission coeff.  $\sigma$ :  $\sigma$  for beryllium is smaller than for barium, while for silicon it is larger than for barium. It is shown that the maximum of the spectrum becomes established at 6  $\simeq$  2 atomic layers and its shape at 0  $\simeq$   $\lambda$ , irrespective of d and  $\eta$ . This result agrees with the previous investigations. It is suggested that in order to obtain two peaks in the slow electron spectrum the following conditions should be fulfilled: 1) The instrument should be provided with an anti-dynatron electrode to cut off spurious electrons from the collector: 2) The electron work functions of the layers and the backing should be different, i.e. a sufficient difference in the contact potentials is essential; 3) The true coeff. of the secondary electron emission of the layer should

Card 2/3

Energy distribution of the secondary electrons of the fourth period. Radiotekh. i elektron. 9 no.5:904-906 My '64.

(MIRA 17:7)

SHCHUCHEIN, Nikolay Vasil'evich.

Tests of electric balance plows. Moskva, Gosmashmetizdat, 1932. 67 p. (Trui: Vsesoiuznogo nauchno-issledovate'skogo instituta s. -kh. mashinostroeniia) (50-47642)

5483.548

1. Plows. 2. Electricity in agriculture.

RAYEVSKIY, N.P.; VLADIMIROV, B.V.; KOMAROV, N.S., red.; SHCHUCHKIN, N.V., red.; SOLOV'YEV, D.I., red.; RABINOVICH, I.P., red.; VASILENKO, I.F., red.; MODEL', B.I., tekhn. red.

[Theory, design, and manufacture of agricultural machinery] Teoriia, konstruktsiia i proizvodstvo sel'skokhoziaistvennykh mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.7. [Atlas of general agricultural machinery parts] Atlas obshchikh detalei sel'khoziaistvennykh mashin. 1945. 335 p. (MIRA 14:6) (Agricultural machinery)

L.	SHCHUCHKIN, R.V.	
2.	USSR (600)	
4.	Agriculture	
7.	Discs and plows. Moskva, Mashgiz,1952	
	•	
9.	Monthly List of Mussian Accessions, Library of Congress, March, 1953. Unclassified.	

oligin CHKIG, h. 7.

Agricultural Machinery

Hanging attachments for tractor KhT3-7. Part 1: Suspension mechanism and cultivator-ridger KcN-2-3, Sel'khozmushina, No. 1, 1952.

Monthly List of "ussian Accessions, Library of Congress, April 1952. Unclassified.

SHO HUCHKIN, H. V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Rame

Title of Work

TO THE STATE OF THE PROPERTY O

Nominated by

Shchuchkin, N. V.

"Plowshares and Surface Plows"

All-Union Scientific Research Institute of Agricultural Machine building

SO: W-30604, 7 July 1954

ERONSHTETN, I.M.; SHCHUCHINSKIY, Ya.M.

Energy spectrum of slow secondary electrons in the adsorption of Ha on W. Hadiotekh. i elektron 5 no.10:1650-1657 0 '60. (MIRA 15:10) (Adsorption) (Secondary electron emission)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548920008-4"

RUBANIK, Vasiliy Vasil'yevich [Rubanyk, V.V.]; SHCHUDRYA, M.A., red.; GURVICH, O.G.[Hurvych, O.H.], tekhn. red.

[The young village of Ksaverovks] Molodits' Ksaverivky. Kyiv, Kyivs'ke oblasne knyzhkovo-gazetne vyd-vo, 1961. 34 p.

1. Predsedatel' kolkhoza "Druzhba", Kiyevskoy oblasti (for Rubanik).
(Grebenki District—Rural conditions)

GINEVICH, G.I.; SKUE, G.I.; SHCHUGAREV, V.T.

THE OFFICE AND PROPERTY OF THE PROPERTY OF THE

Studying the process of continuous distilling-off of highly volatile substances in the production of plasticisers from dibutylphthalate and dioctylphthalate. Plast.massy no.3:64-67 '64. (MIRA 17:3)

غائي داد در ۱۳۰۱ و درو پر بهرساله

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SOV/137-58 10 20381

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 10 p4 (USSR)

AUTHORS: Zhukovskiy, G. V., Shchugol, L.S.

TITLE: Ore-dressing Flowsheet at the Lebyazh ye Deposit (Tekhnologiya obogashcheniya rud Lebyazhinskogo mestorozhdeniya)

PERIODICAL: Tr. N. i. i proyektn. in-ta "Uralmekhanobr", 1957, Nr 1,

ABSTRACT: A description of processing procedures and indicate

A description of processing procedures and indices for dressing ore at the Lebyazh' ye-deposit plant by magnetic separation and sintering is presented. A method to be used to extract apatite concentrate from the ore is noted.

м. м.

1. Ores--Processing 2. Minerals-Separation

Card 1:1

1	SHCHUGOREV.	T.S.,	SHONDRA.	I.V.

2. USSR (600)

4. Rodentia

7. Protecting fruit trees from rodent damage. Sad i og no. 11, 1952

9. Monthly List of Mussian Accessions, Library of Congress, March, 1953. Unclassified.

SHCHUYA, A., student

Mine without miners. Tekh.mol. 31 no., 1 15 163. (MTRA 16:6)

1. Moskovskiy fiziko-tekhnicheskiy institut.
(Donets Basin--Goal mines and mining)
(Automation)

SHCHUKA, A.

Equations and eras. IUn.tekh. 8 no.11:56-58 N '63. (MIRA 16:12)

POLYAKOV, A.I., inzh.; NASEDKIN, V.V., inzh.; SHCHUKA, A.I., inzh.

Increase in the operational reliability of LaMont boilers.
Energetik 9 no.3:6-7 Mr '61. (Boilers)

(Boilers)

SETHERA, M. I., inch.

Useful suggestions. Avion., telem. i sviaz' & no.12:36 D '62.

(MIRA 18:1)

l. A..ya distantsiya signalizatsii i svyazi Kuybyshevskoy dorogi.

SOV/138-59-4-15/26

AUTHOH: Shchuka, S.M.

TITE: A Conference on Co-ordination of Research and Construction Work in the Rubber Industry (Soveshchaniye pokoordinatsii planov nauchno-issledovatel'skikh i opytno-

konstruktorskikh rabot v rezinovoy promyshlennosti)

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, pp 48-49 (USSR)

ABSTRACT: The Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Research Institute for the Rubber Industry,

MIIRP) convened a conference held on March 4th - 7th, 1959 on co-ordination of 1959 programme of research and construction work of the NIIRP, NIIR, the "Rezinoproyekt" Institute, Tsentral'naya laboratory, (Central Laboratory, TsZL) and the construction and technological departments

(KTC) of the plants producing rubber articles. The

conference was organised by Gosudarstvennyy Komitet Soveta Ministrov SSSR po khimii (State Committee of the Council of Ministers of the USSR for Chemistry) in conjunction with

meveral councils of national economy etc. More than 200 Card 1/3

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APPROVED FOR RELEASE: 08/23/2000

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SOV/138-5-4-15/26

A Conference on Co-ordination of Research and Construction Work in the Rubber Industry

representatives attended the meeting. The lectures dealt with experimental work carried out by TsZL and KTO during 1958 and plans for 1959. The Deputy Director of the NIIRP, S.V. Burov, reviewed the work on new plants and technological processes in the rubber goods industry, on conveyor belts and synthetic fibres. He also discussed the processes of ageing and stabilisation of rubbers by the application of heat, light and irradiation, radiation vulcanisation, etc. The Deputy Director of NIIR, V.I. Novikov, discussed similar topics, as well as the organisation of work in the rubber footwear industry and in medicine, and new uses of synthetic rubber. The Chief Engineer of the Moscow Factory "Kauchuk", V.K. Smirnov, the Deputy Chief Engineer of the Leningrad Factory RTI, S.K. Turkin, the Chief Engineer of the Sverdlovsk Factory RTI, N.I. Kosynets, and others discussed complex mechanisation and automation in the industry producing rubber articles, mechanisation of transport, automation of supply, and weighing of liquid and granular ingredients, etc.

Card 2/3

SOV/138-59-4-15/26

A Conference on Co-ordination of Research and Construction Work in the Rubber Industry

Difficulties encountered by the industry were discussed, e.g. the distribution of new types of raw materials to the various factories. The conference was divided into two sections: a section for construction works and a chemical technology section, which discussed their research and construction plans for 1959.

Card 3/3

S, 138/60/000/007/010/010 A051/A029

AUTHOR:

Shchuka, S.M.

TITLE:

A Meeting Held on the Coordination of Scientific-Research Work and

Experimental-Designing in the Rubber Industry

PERIODICAL

Kauchuk i Rezina, 1960, No. 7, pp. 51 - 52

TEXT: A scientific-technical meeting was held at the Scientific-Research Institute of the Rubber Industry form March 22 - 25, 1960, on the problems of co-ordinating the plans of the scientific-research work and experimental-designing of the NIIRP, NIIR, the "Rezinoproyekt", the Central Plant Laboratories, designing-technological departments and departments of automation and mechanization of commercial rubber products and rubber products for general consumption for the year 1960. The meeting was organized by the State Committee of the USSR Cruncil of Ministers on Chemistry according to the wishes of a number of National Economy Councils, plants and by the decision of the meeting held the previous year on similar problems. The papers submitted and speeches held summarized the work and plans for 1960. Ye.M. Rabkin, head engineer of the Administration of Three and Rubber products of the State Committee on Chemistry, held the introductory speech

Card 1/4

S/138/60/000/007/010/010 A051/A029

A Meeting Held on the Coordination of Scientific-Research Work and Experimental-Designing in the Rubber Industry

on the major tendencies in the development of the rubber industry; S.V. Eurcy, deputy director of the scientific division of the NITRP read a paper on the results of the scientific research work at the NIIRP and the general paths taken by the institute in this connection. V.I. Novikov, deputy director heading the scientific section of NIIR, discussed the possibilities of increasing the mechanization level of rubber footwear production, latex articles and articles for medical purposes and the study of new synthetic latexes. B.M. Smirina, head engineer at the "Rezinoproyekt" Institute, reported on the new processes of commercial rubber articles production to be introduced at the new rubber plants. Reference was made to the rubber article plant being built as part of the Volga Chemical Combine. A. S. Novikov of the NIIRP presented a paper on the development of new synthetic rubbers both in the Soviet Union and abroad. N.N. Lezhnev of the NIIShP reported on the demands placed on carbon blacks in the rubber industry in the light of modern views of the physico-chemical nature of filling. V.K. Smirnov of the Moscow "Kauchuk" Plant, P.I. Tikhomirov (Leningrad Rubber Article Plant), V.I. Yudin (Sverdlovsk RTI Plant), T.N. Titarenko (Kursk Rubber Plant), M.S. Kegan (Yara

Card 2/4

The transformation of the companies of t

S/138/60/000/007/010/010 A051/A029

A Meeting Held on the Coordination of Scientific-Research Work and Experimental Designing in the Rubber Industry

slavl' Rubber Article Plant) and others, reported on the development of complex mechanization and automation of the production of molded and unmolded rubber products, the mechanization of transportation in the various technological operations within the shops and between shops and the loading and unloading operations automating the supply and weighing of liquid and loose ingredients to the mixer, perfecting the technology of production, introducing new types of raw material and new types of articles. The MARS-200, an automatic machine for recording and cortrolling the temperature on the electrical press, has been installed at the "Krasnyy Bogatyr'" and "Kauchuk" Plants. At the latter a press with removable plates and cassette press-forms is being installed. A new continuous vulcanizer of the open type for vulcanizing molded sponge rubber articles in an air medium and an automatic program control of the vulcanization of rubber rales in boilers were introduced at the Leningrad Rubber Article Plant. At the Kazan' Rubber Article Plant a fissureless method for the production of pressure sleeves was introduced. Certain types of rubber footwear made on a conveyor belt are being manufactured at the "Krasnyy Treugol'nik" and "Krashyy Bogatyr'" Plants. The mass-production of

Card 3/4

S/138/60/000/007/010/010 A051/A029

A Meeting Held on the Coordination of Scientific-Research Work and Experimental-Designing in the Rubber Industry

variation belts using caprone fabric has been introduced for application at the CK-3 (SK-3) combine. New rubbers such as CKC-30 (SKS-3C), APM-15 (ARM-15), soft nitrile rubbers of the CKH-40 (SKN-40) type and CKH-26 (SKN-26) have been manufactured by a number of plants. Some of the rubber article plants have introduced the production of thermal-resistant material OKC (FKS) and molded articles from fluctine rubber-based material. The "Krasnyy Treugol nik" Plant has developed the construction of a semi-automatic machine of the turning type for the vulcanization of shoes. The "Krasnyv Bogatyr'" Plant has introduced the production of galoshes with inserted profile parts. It was decided to organize special designing bureaus at the various rubber plants, which would deal with furthering the development of molded products, sleeves, transportation belts, latex technology and to erect special plants for the production of non-standard equipment and conveyor belts for the rubber industry. Further decisions were made on the installation of equipment for footwear molds, introduction of capacities for special-purpose synthetic rubber, for chemical fibres for the industry of commercial rubber products and rubber footwear.

Card 4/4

#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R001548920008-4

L 4402-66 EWT(1)/FCC RB/GW

ACC NR: AP5025486

SOURCE CODE: UR/0203/65/005/005/0941/0942

AUTHOR: Shchuka, T. I.

ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i Antarkti-

cheskiy nauchno-issledovatel'skiy institut)

TITLE: Riometer observations of shifting regions of anomalous absorption

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 5, 1965, 941-942

TOPIC TAGS: aurora, ionospheric absorption, geomagnetic disturbance, geomagnetic

field

ABSTRACT: Two riometers were operated at the <u>Dickson Island Arctic Station</u> during July and August, 1964, to record ionospheric absorption of extraterrestrial radio emission as a function of aurora borealis activity. Both riometers were tuned to 32 Mc and calibrated at a common "quiet day" reference level. One antenna was aimed north and the other was aimed about 50° west of north, so that a strip of the ionosphere approximately 490 km long was under observation. Comparison of dips in simultaneously received signals during auroral activity showed where local absorption minima and maxima were occurring within the observed region. Results of 106 recordings showed that locations of absorption maxima and minima were functions of auroral

**Card** 1/2

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#### CIA-RDP86-00513R001548920008-4 "APPROVED FOR RELEASE: 08/23/2000 THE COURSE OF THE PROPERTY OF

EWT(1)/FCC/EWA(h) L 9782-66

SOURCE CODE: UR/0203/65/005/005/0937/0939

AF5025484 ACC NR:

Shchuka, T. I.

ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i Antarkticheskiy nauchno-issledovatel skiy institut)

TITLE: Sporadic ionization of the aurora polaris type in region E

SOURCE: Geomagentizm i aeronomiya, v. 5, no. 5, 1965, 937-939

TOFIC TAGS: ionosphere, e layer, ionization, aurora

ABSTRACT: A single manual on the vertical probing of the ionosphere, (J. W. Wright, R. W. Knecht, C. Davis, Rukovodstvo po vertikal nomu zondirovanyu ionosfery, IL, 1957) was accepted by almost the entire network of ionospheric stations. Still, the interpretation of ionograms during classification of sporadic reflections in the region E seems to be far from uniform. For instance, stations Luleo and

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UDG: 550. 388.2

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ACC NR: AF5025484

Salechard, having similar geomagnetic latitude, interpreted the percentage of the E<sub>sa</sub> (sporadic ionization of the aurora polaris type) appearance, during Jan., Feb., Nov., and Dec., 1958, as 40 and 1.4%, respectively. This large difference could not be causedonly by differences in the ionospheric parameters above these stations. They were probably caused by subjective personal opinions of the specialists treating the material. An attempt was made to classify various types of Esa and outline their characteristics in order to facilitate and unify their dentification. The comparison of ionograms and ascafilms showed that 3 types of identification. The comparison of ionograms and ascafilms showed that 3 types of Esa occurred most often during reflection from sporadic ionization related with aurora polaris: (1) the classical type of Esa, fully corresponding to the definition given in the J. W. Wright et al. manual; (2) Esa during elevated absorption, appearing at high values of minimal frequency of reflections (it is usually characterized by a decrease in diffusion and scattering and almost complete disappearance of stratification in the upper part of the path); and (3) plete disappearance of stratification in the upper part of the path); and (3) rease in the height of the reflection path with increased frequency (it differs from Esa, very similar in appearance of the reflection path with increased frequency (it differs from Esa in that reflections are caused by entirely different phenomena in the lower ionosphere). The following characteristics of these reflections should be

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L 9782-66

ACC NR: AF5025484

considered in order to facilitate their identification from ionograms: (1) dependence of the outside appearance on amplification (e.g. during increase in absorption of the ionosphere, the maximum amplification results in the correct identification) and (2) rapid changes in an outside appearance (occasionally a different type appears for a short time, to change rapidly into a true type). Origart. has: 3 figures and 1 table.

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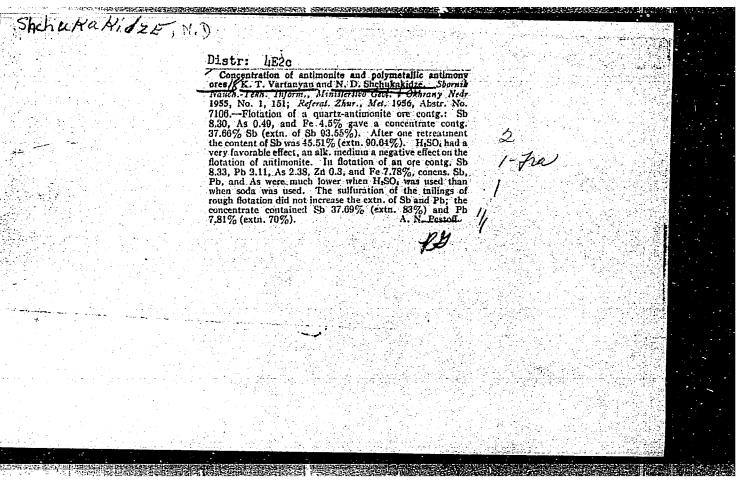
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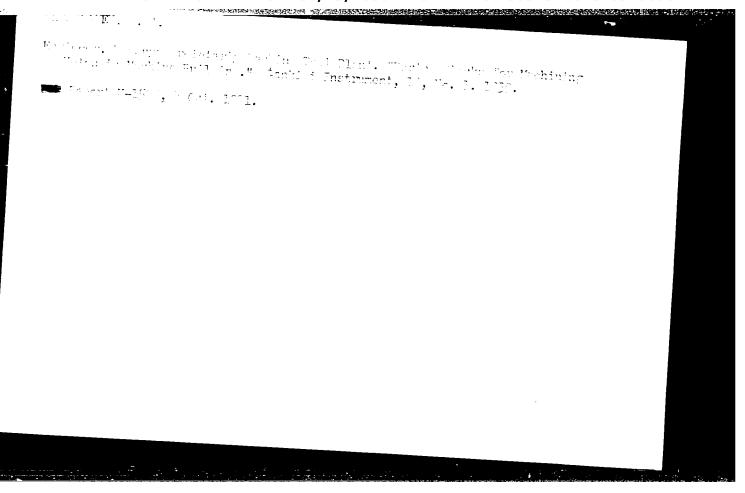
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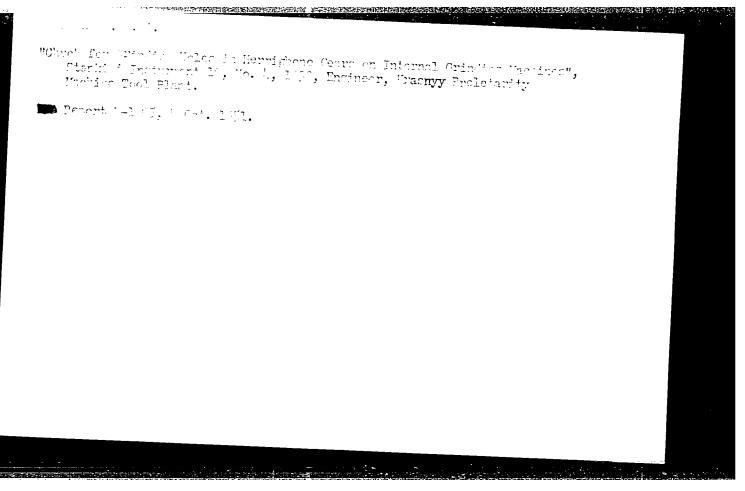
MEDVEDEVA, M.N.; KUGENEV, P.V.; SHCHUKA, V.P.

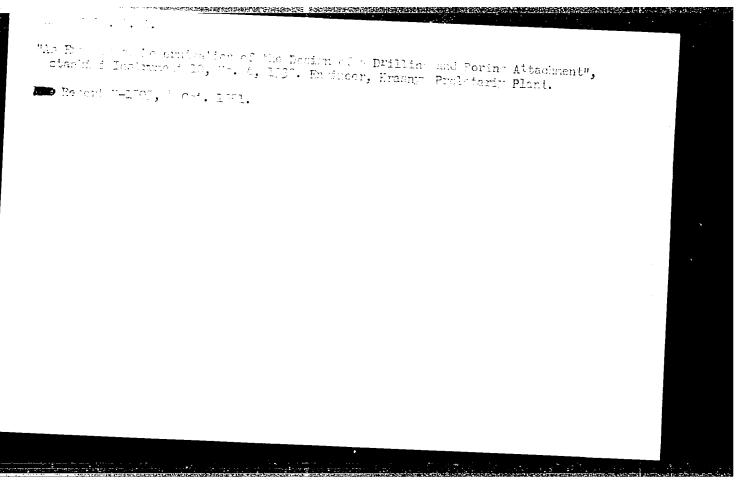
Use of paper chromatography for determination of amino acids on a large scale. Labdelo 7 no.9:3-8 S '61. (MIRA 14:10)

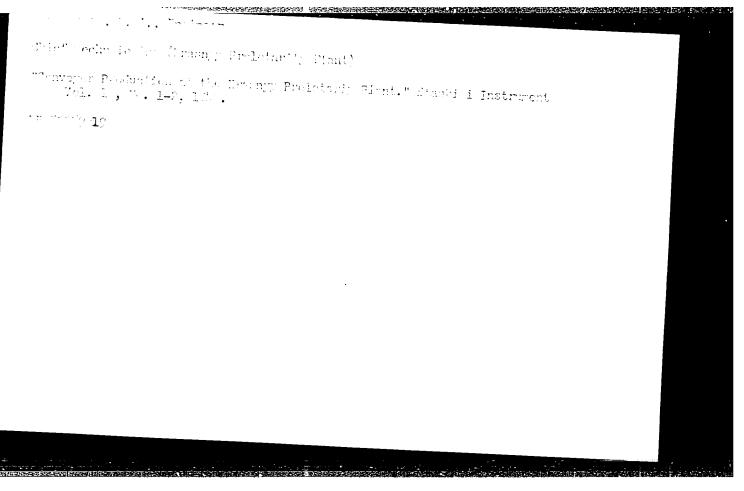
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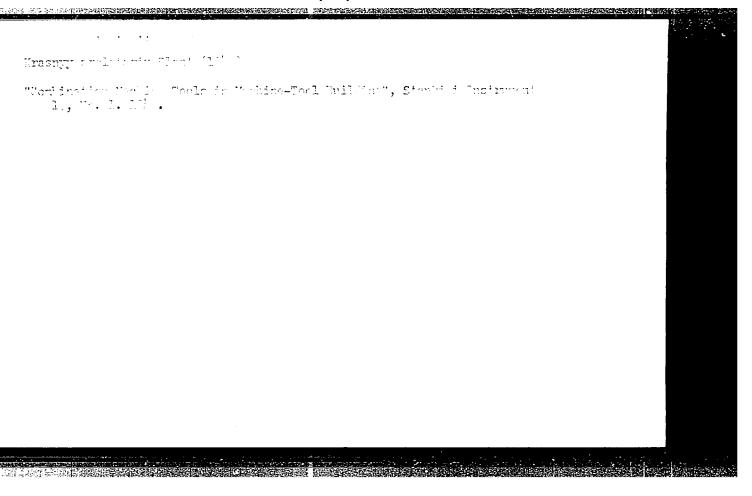












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USSR/Engineering

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Feb 1948

Machines, Milling
Machinery - Construction

"Mechanization of the Process for Finishing Multiprofile Parts for a Multiple Cutter Milling Duplicating Machine," B. A. Shchukarev, Laureate of Stalin Prize, 6 pp

"Stanki i Instrument" No 2

Until now milling duplicating machines have not been mass produced due to high degree of accuracy necessary in various parts of machine. Describes accurate machine method to produce parts for milling duplicating machines permitting mass production of these machines in near future.

Swill Manuel James

.otochnyi metod v krujnoser. mom proizvodstve; iz opyta koskovskogo ordena Lenina stankostroltel'nogo zavoda "krasnyi proietarii." moskva, kashgiz, 1949. 201 p. illus.

Assembl, -line methods in a large-scale serial production; from the experience of the hoscow Lemin's Order machine-tool construction plant "Krasnyi proletarii"

DLC: TéO. A75:5

EG: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

B. A. THOMSULZEV and BOLOTIN, KH. L.

O konkurse no luchshie prisposobleniia. (Vestn. Mash., 1949, no. 6, p. 49-54) Competition organized by "VHITO ASH"

Connetition for better equipment.

DLC: TNL.VL

50: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SHCHUKAREY, BaAtt, laureat Staliaskoy premii.

Designing highly efficient devices which reduce the set-up time. [Izd] LONITOMASH 24:177-188 '51. (MIRA 8:2) (Machine tools—Accessories and attachments)

Auchinery Industry	
New method of rapid preparation for machine production, H. A. Porvatov, deviewed by B. A. Shohukarev, Vest. mash. 33 do. 2, 1953	
Monthly List of Russian Accessions, Library of Congress, June 1953, Unc	2].

Advanced techniques and equipment in the operations of the State
Institute for Design and Planning of Synthetic Liquid Fuel and
Gas Plants in the East. Stroi. truboprov. 6 no. 2:5-6 F '61.

(Gas research)

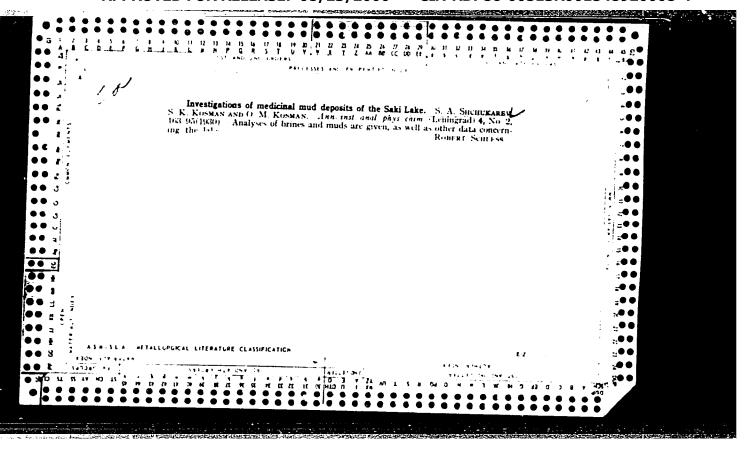
(Gas research)

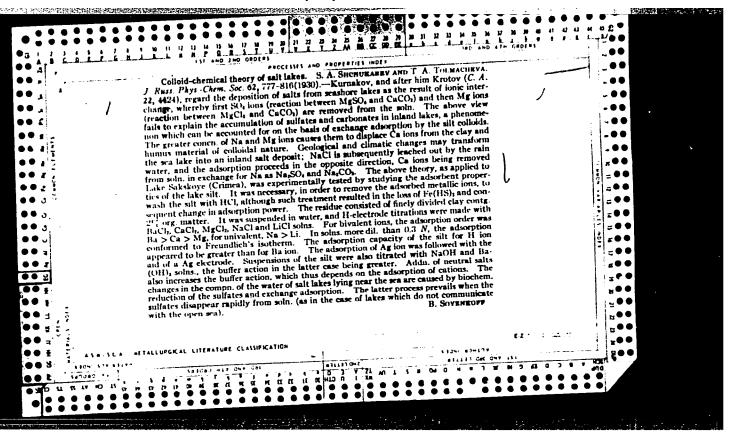
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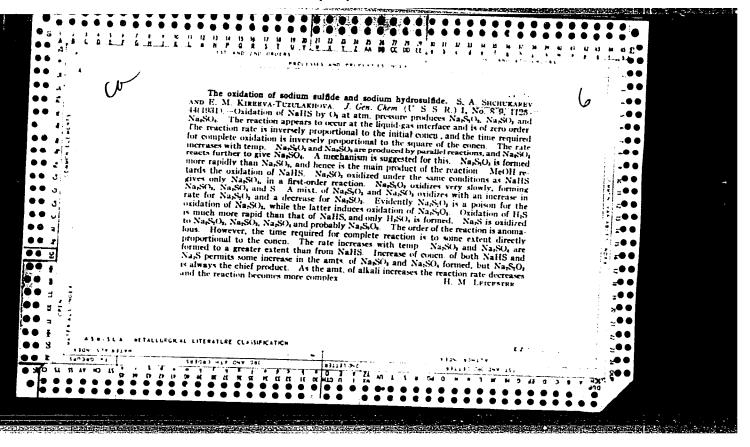
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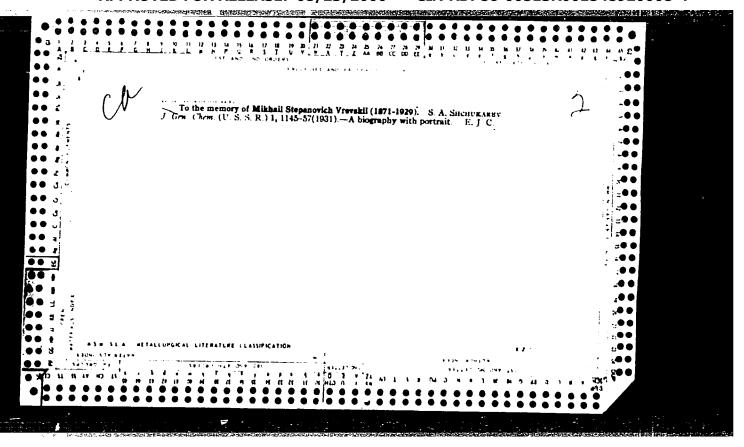
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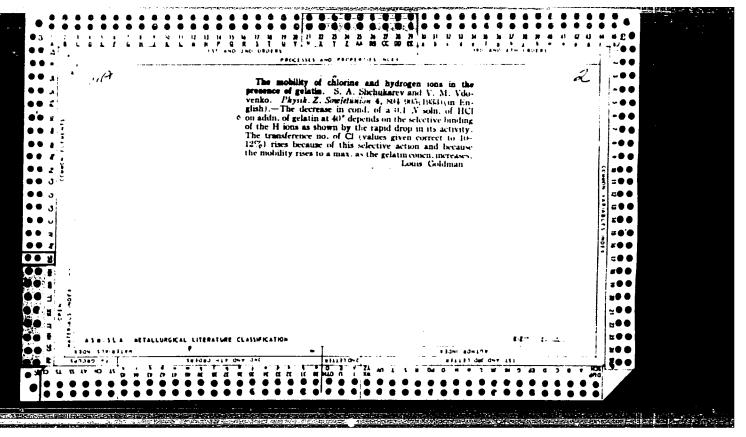
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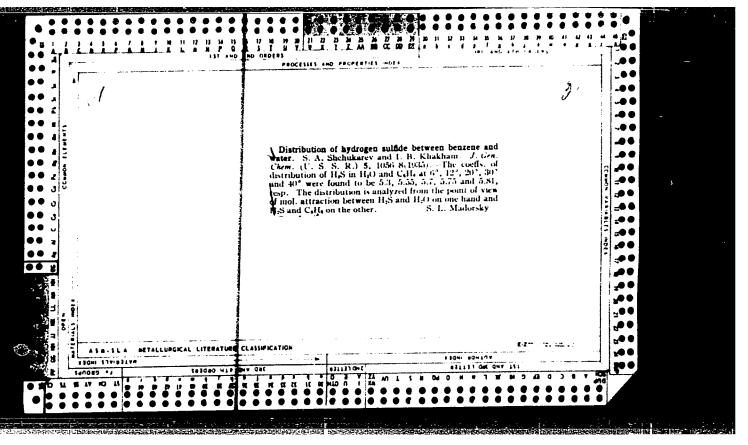


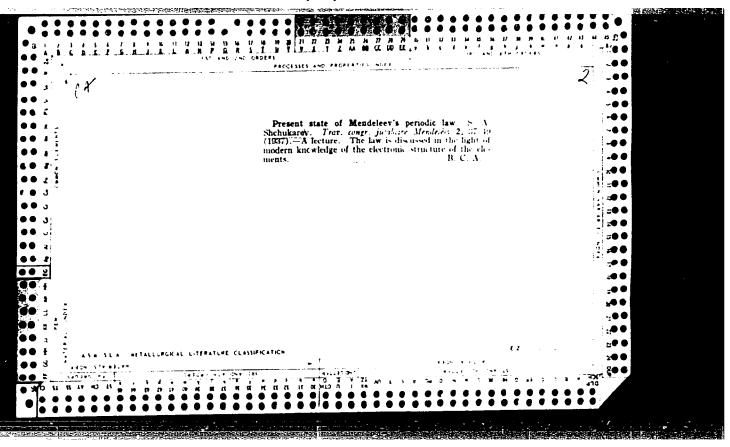


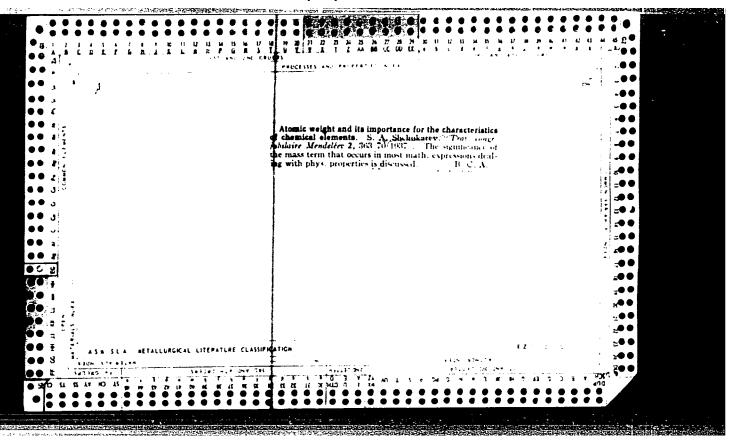


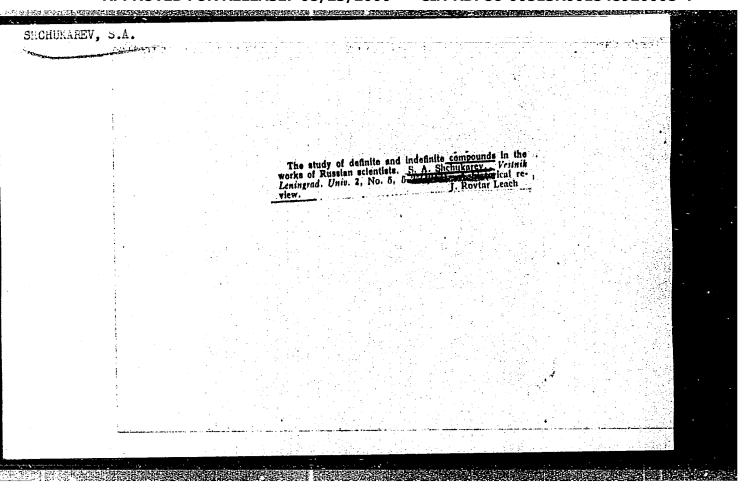


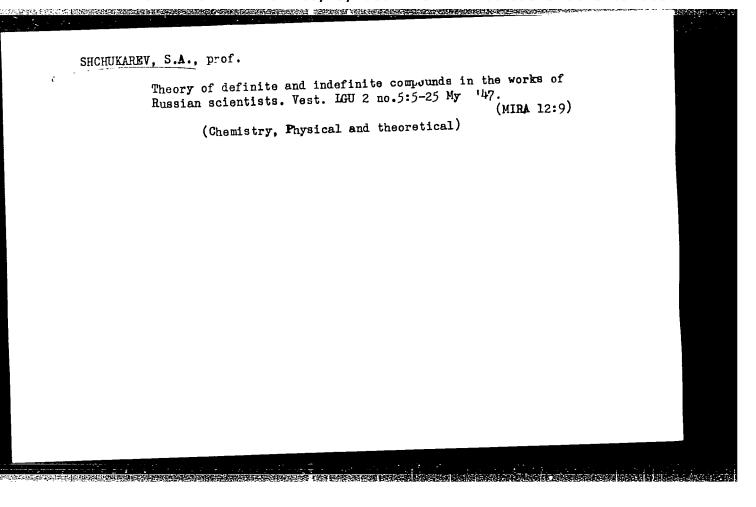












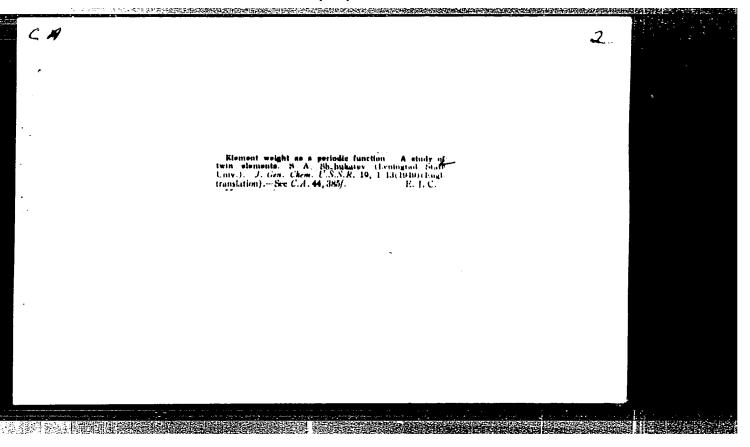
SHCHUKAREV, S.A., prof.

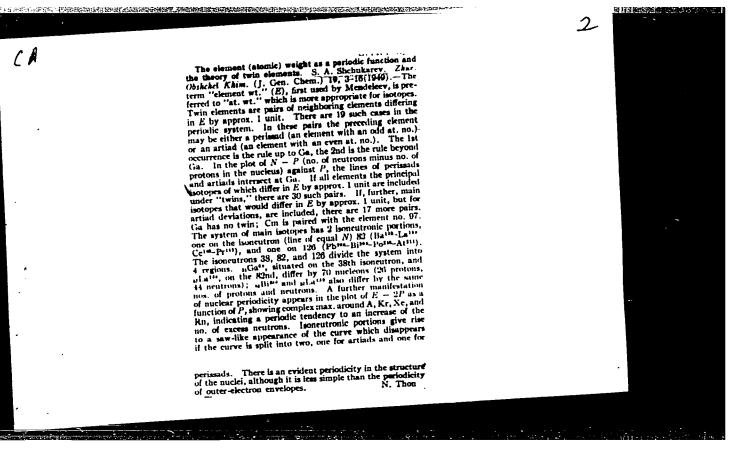
D.I. Mendeleev and Leningrad University. Vest. IGU 2 no.6:148-154

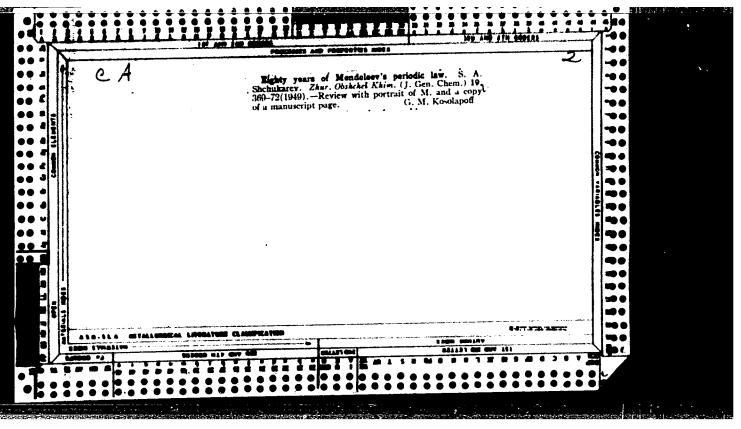
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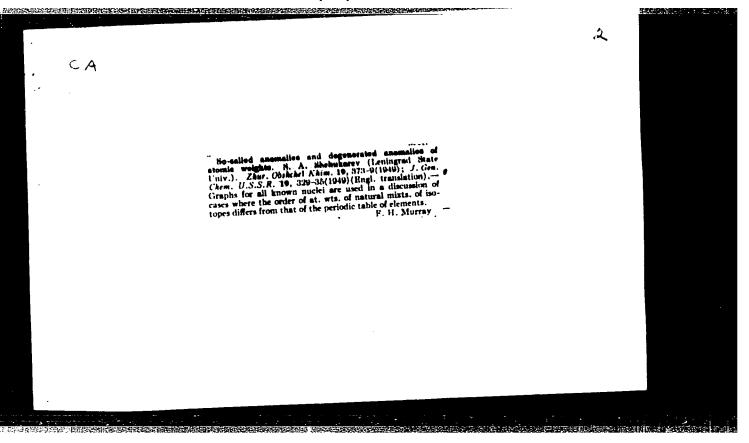
(MERA 12:9)

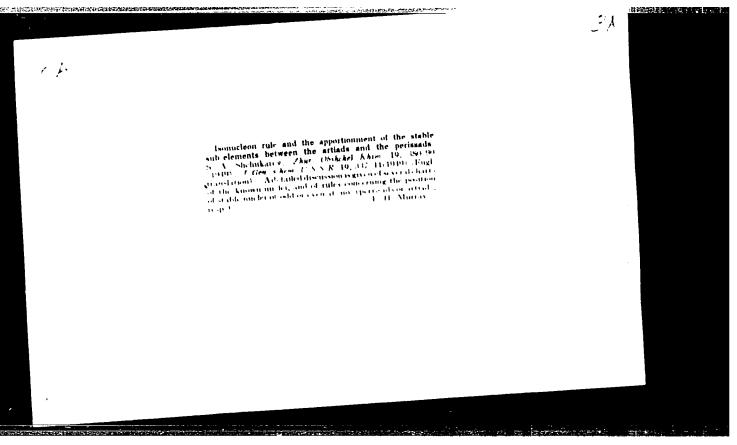
(Mendeleev, Dmitrii Ivanovich, 1834-1907)

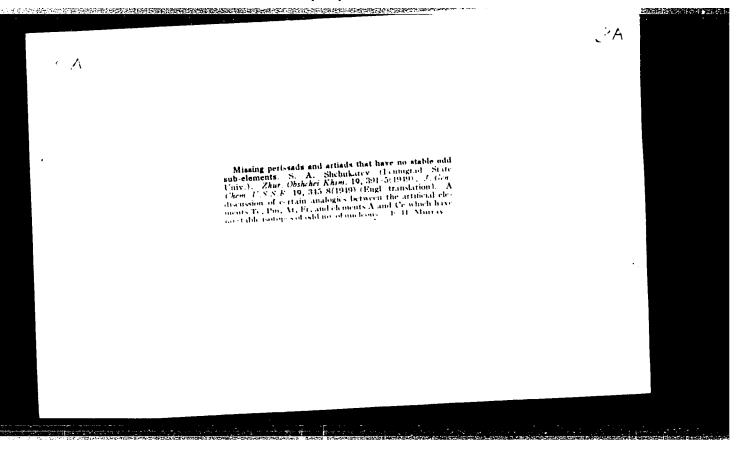


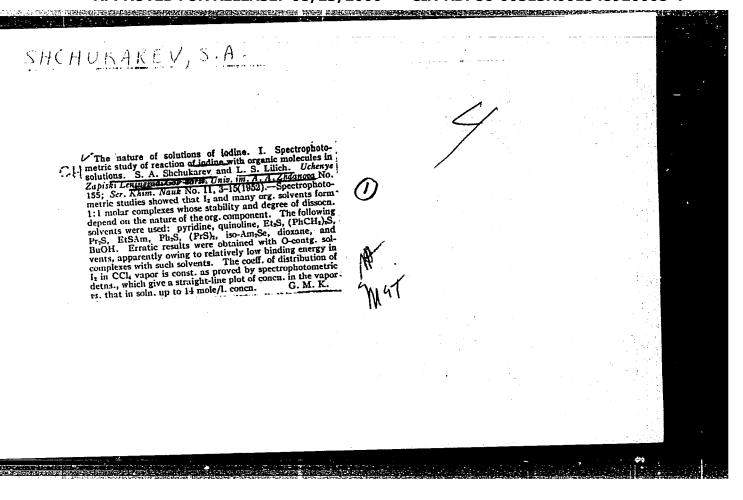


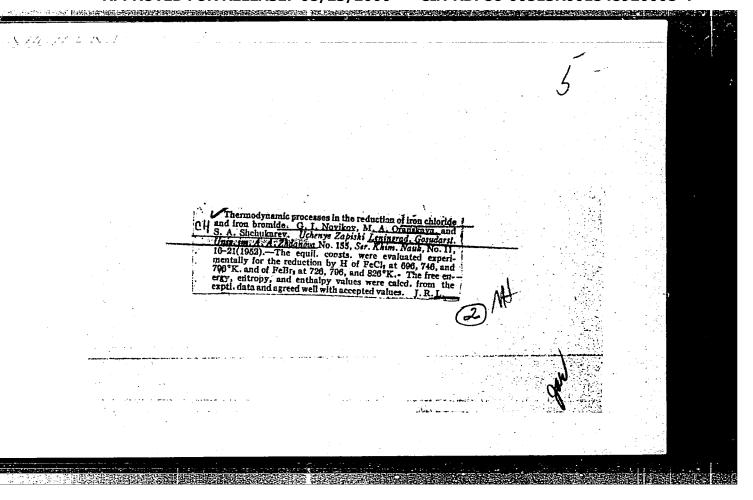


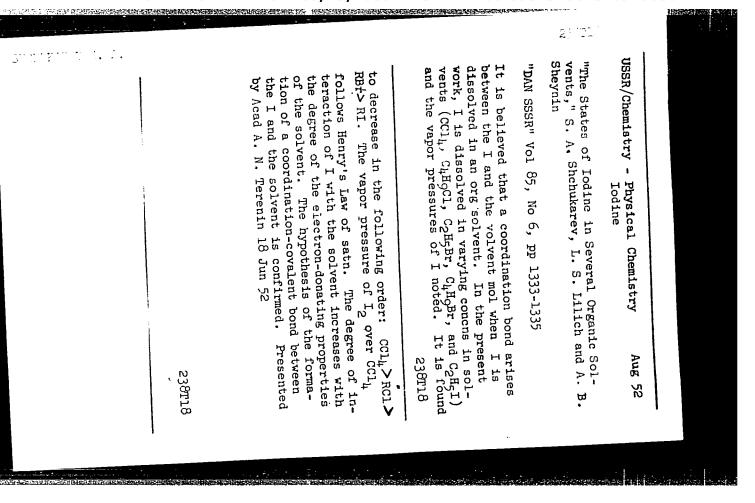












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1.	MCHARALT, S. A.; AUDINEN, A. F.	
2.	man (600)	
Ŀ.	Spenimen, Claratiolet	
7.	Invistigation colorimetric analysis in the ultraviolet region of the spectrum, Zhuranal. khim. 8, No. 1, 1953.	

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548920008-4"

9. Monthly List of Russian Accessions, Library of Congress, \_\_\_\_\_\_1953. Unclassified.

SHORUMARRY, S.A.; VASIL'KOVA, I.V.

Phenomenon of secondary periodicity as examplified by magnesium compounds with the elements of the main subgroup of the fourth group of D.1 Mendeleev's periodic system. Vest. LGU 8 no.?:

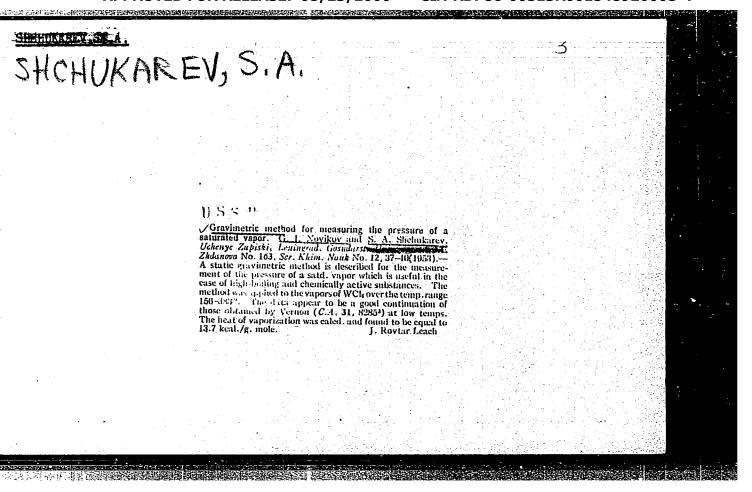
115-120 F'53.

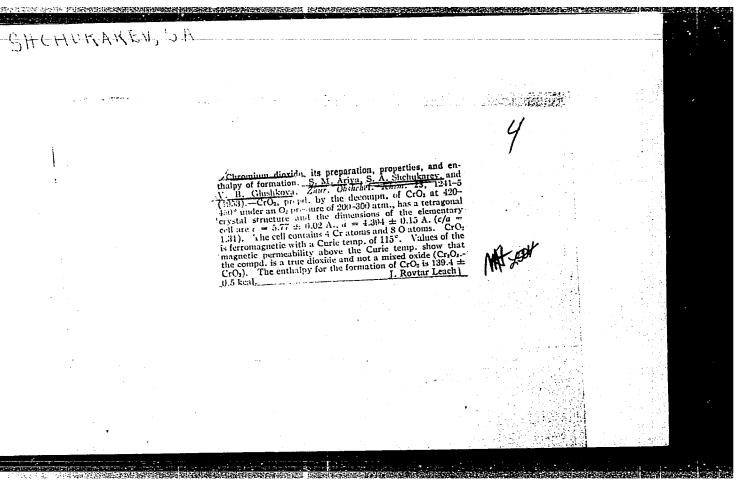
(Periodic law) (Magnesium compounds)

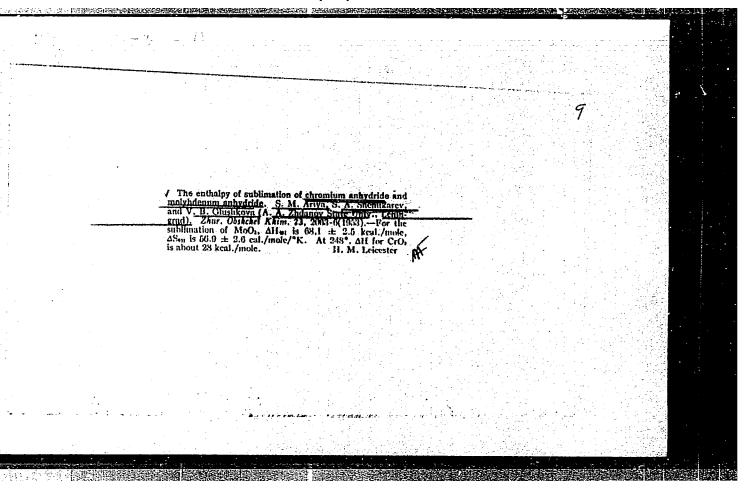
SHOHUKAREV, S.A.; ARIYA, S.M.; Laketin, G.I.

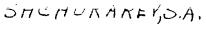
Thermochemistry of magnesium compounds with the elements of the moin subgroup of the fifth group. Vest. IGN 3 no.7:121-126 (NIRA 12:7)

F '53. (Magnesium compounds) (Thermochemistry)







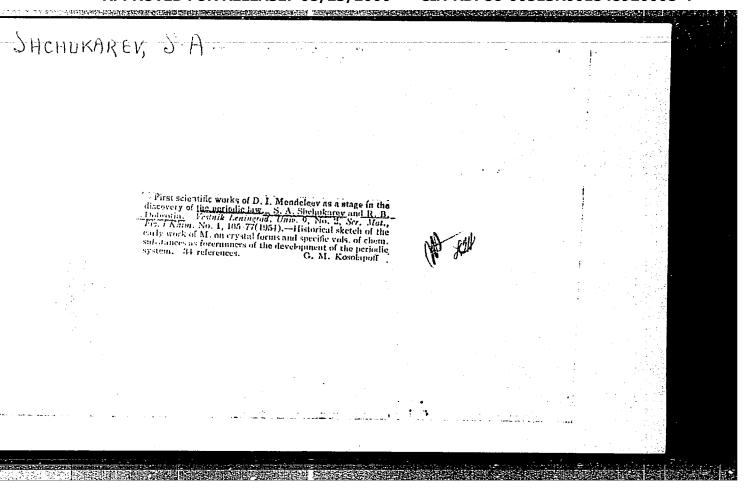


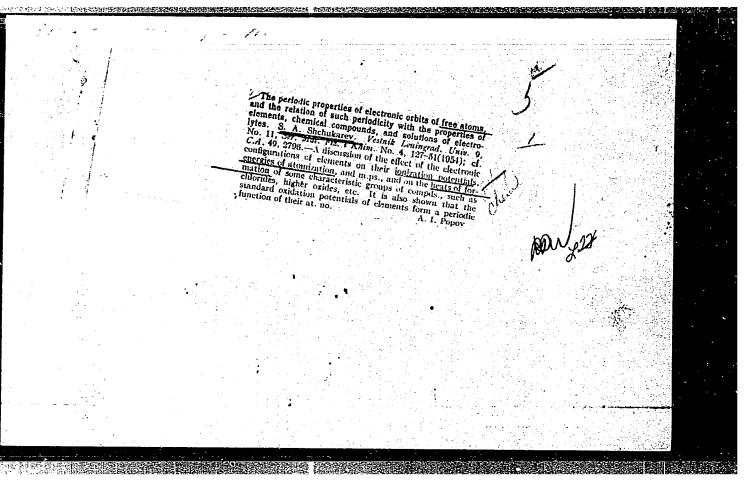


The heats of reaction of hydrates of oxides of zinc, copper, (II), and barium with hydrochloric and nitric acids and hydrogen halide acids. S. A. Shchukarev, L. S. Lilich, and 273-6(1953).—It is known that ions of Zn and Cu(II) in 273-6(1953).—It is known that ions of Zn and Cu(II) in one, and continuous mustable complex ions with halogen and Cu the effects of neutralization by acids differing by the continuous modern of Zn(OH), Cu(OH), and Ba(OH), with a differing by the complex ion of Zn(OH), Cu(OH), and Ba(OH), with 2N HCl, with acid always in large excess. HCl and HNO, were used for comparison as anions which develop min. tendency to approx. equal for all acids used, corresponding to Thomsen's Heat effects for Zn(OH), ZnO, and Cu(OH), in the indicated acids are not equal and increase with transition from Zn+ and Cu++ with anions in soln. The differences becorrespond to the literature conets. for hydration of Zn(OH), in all acids are almost equal and with formation of Zn(OH), in all acids are almost equal and viveen ZnO and Zn(OH), in all acids are almost equal and viveen ZnO and Zn(OH). Heat effects may attest to deth. of thermal stability and compn. of complex ions formed.

V. N. Bednarski.

10-13-54 ME





#### CIA-RDP86-00513R001548920008-4 'APPROVED FOR RELEASE: 08/23/2000

# SHCHUKAREV, S. A.

USSR/Chemistry - Spectral analysis

: Pub. 145 - 2/14 Card 1/1

Shchukarev, S. A.; Andreyev, S. N.; and Sapozhnikova, O. V.

: Determination of small ketone amounts by colorimetering in the Authors

ultraviolet zone of the spectrum Title

: Zhur. anal. khim. 9/4, 193-195, Jul-Aug 1954

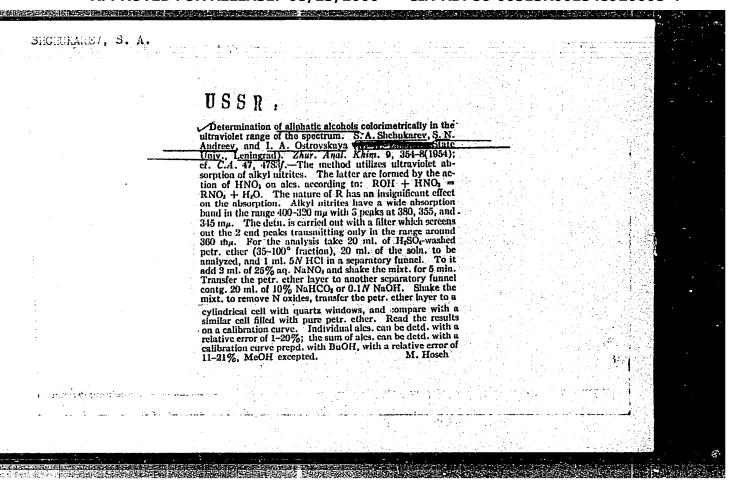
: The applicability of the colorimetering method for quantitative Periodical Abstract

analysis of various aliphatic ketones was investigated. The objects used in this investigation were the following aqueous ketone solutions: acetone, methylethylketone, pentanone-2, hexanone-2, heptanone-2 and octanone-2. The relative accuracy of the analysis attained by this method was 0 - 15%. It was established that the colorimetering of acetone solutions in the presence of formaldehyde is possible also at a acetone-formaldehyde concentration ration of 1: 100. Nine refer-

ences: 2-English; 2-German and 5-USSR (1901-1953). Tables; graphs.

The A. A. Zhdanov State University, Leningrad Institution:

December 9, 1953 Submitted



#### CIA-RDP86-00513R001548920008-4 "APPROVED FOR RELEASE: 08/23/2000

SHCHUKAREV, S. A.

USSR/Chemistry

Card 1/1

Authors

Shchukarev, S. A.

Title

The periodical law of D. I. Mendeleyev as the basic principle of

modern chemistry.

Periodical

Zhur. Obehchei Khim. 24, Ed. # 581 - 592, April 1954

Abstract

The D. I. Mendeleyev periodical law, according to the author, should be considered as the basic principle of chemistry, controlling the intermittent, qualitative changes accompanying the conversion of one element into another and confirming the periodicity of these changes depending upon the behavior of the nucleus and external atomic electrons, qualitative changes in the consecutive series of elements oriented in the order of increase of nuclear charges ranging from hydrogen to centurium.

Nine references; all USSR; 6 since 1950, 3 of earlier date.

Tables, graphs.

Institution

Submitted

February 1, 1954

#### CIA-RDP86-00513R001548920008-4 "APPROVED FOR RELEASE: 08/23/2000

SHCHUKAREV, 3. A.

Synthesis methods USSR/ Chemistry

Card

: 1/1

Pub. 151 - 1/33

Authors

: Shchukarev, S. A., Morozova, M. P., and Prokofyeva, E. A.

Title

: Higher barium phosphides

Periodical

: Zhur. ob. khim. 24/8, 1277 - 1278, August 1954

Abstract

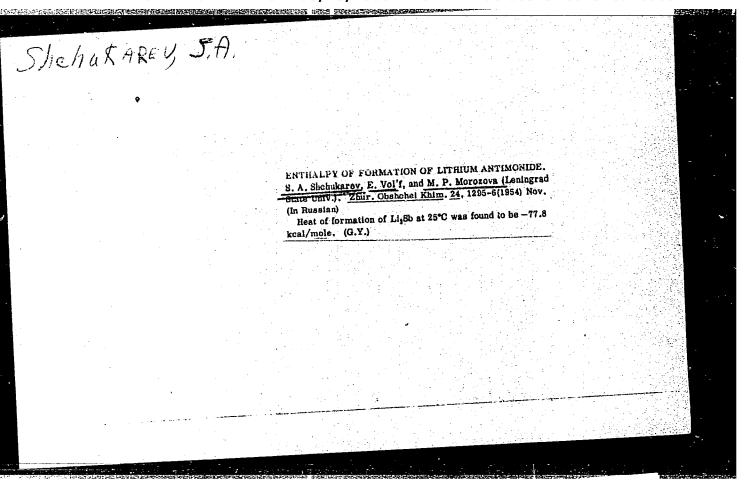
: The derivation of higher barium phosphides (BaP2 and BaP3) in a state of thermal equilibrium at low P-vapor pressures, is described. The thermodynamic stability of BaP2, a compound analogous to barium nitride, was found to be much higher than in the case of N-compound. The fluctuations in the formation enthalpy, during transition from one element into another, are explained. Three USSR references (1945 and 1953).

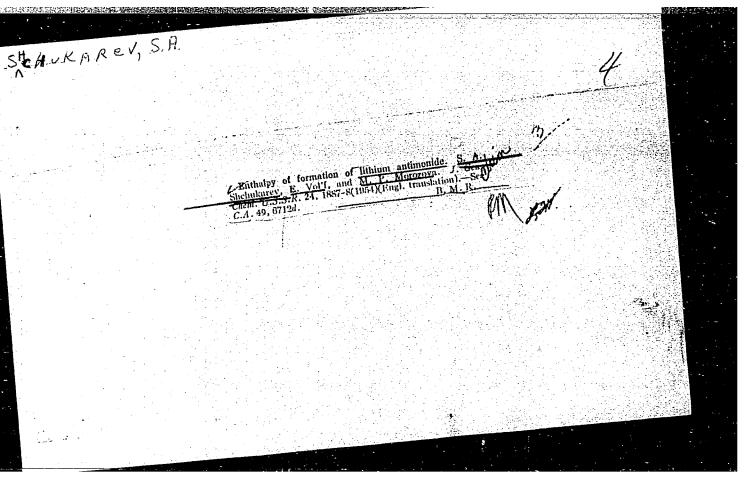
Table.

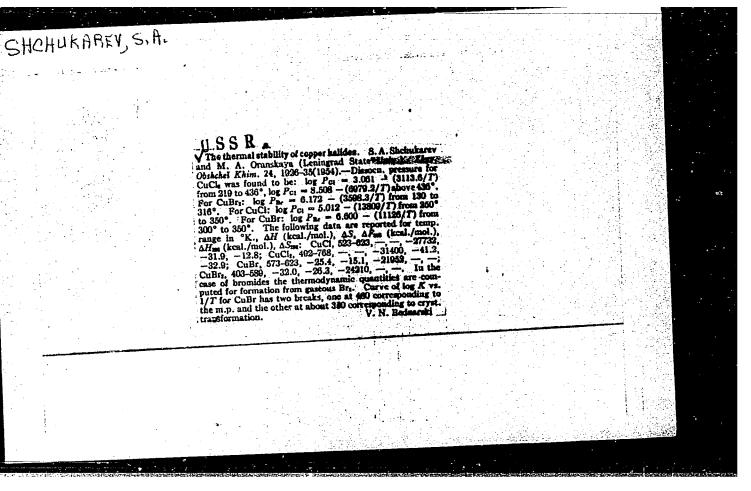
Institution : State University, Leningrad

Submitted

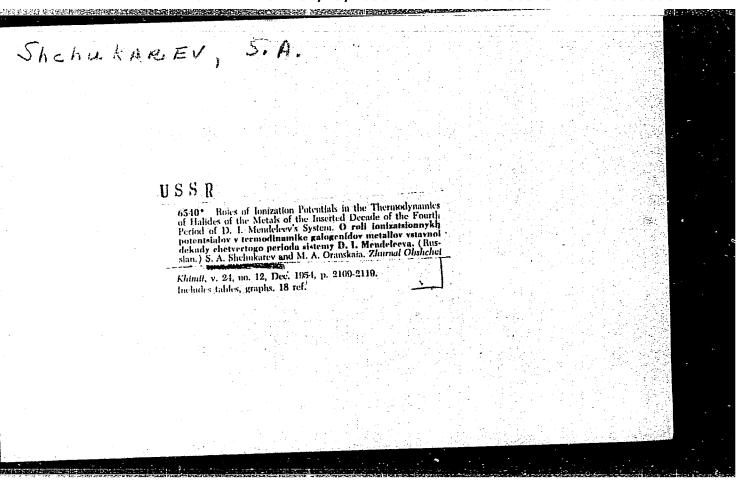
: March 6, 1954







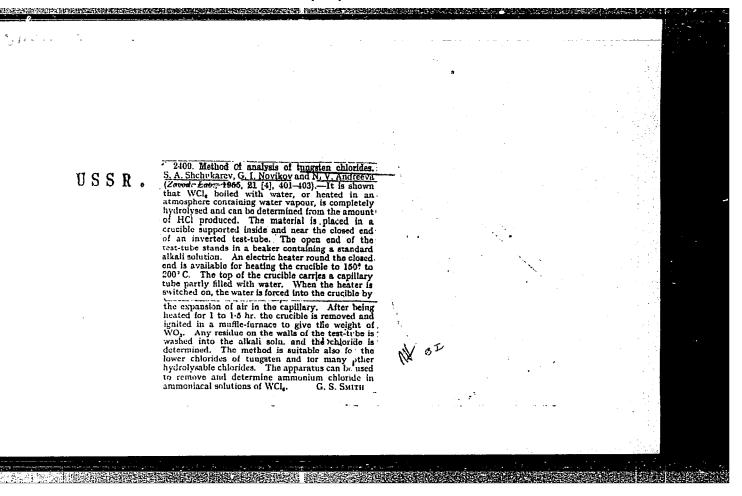
SHCHUKAREU, S.A.; TOLMACHEVA, T.A.; ORANSKAYA, M.A. Thermal stability of cobalt and nickel halides. Zhur.ob.khim.24 no.12:2093-2109 D 154. (MLRA 8:3) 1. Leningradskiy gosudarstvennyy universitet. (Halides)

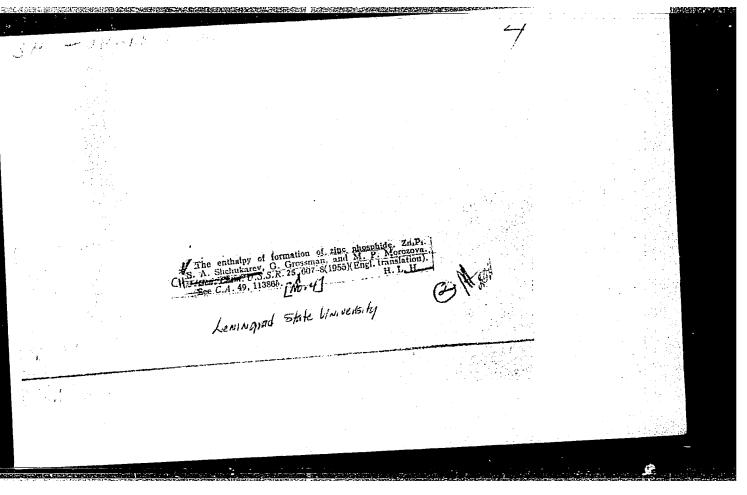


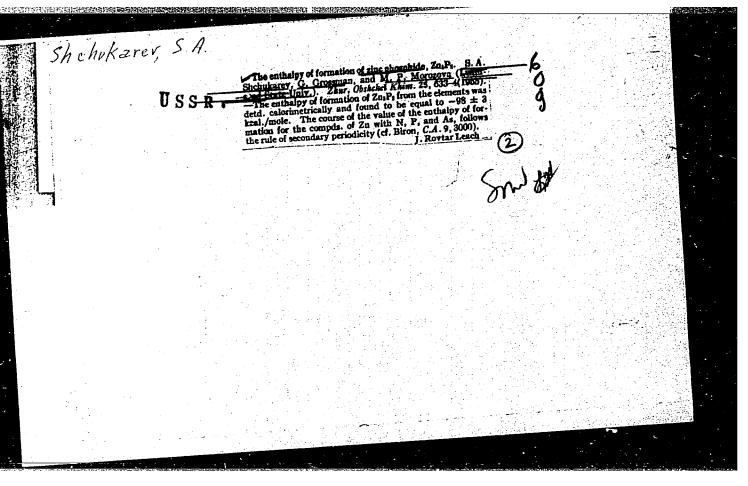
SHCHUKAREV, S.A.; DOBROTIN, R.B.

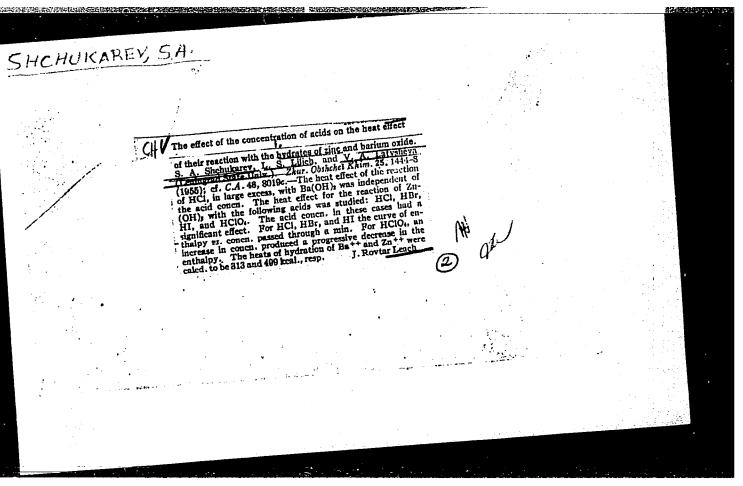
New manuscript of E.S.Fedorov on the periodic law. Kristallografiia no.3:81-84 '55. (MLPA 10:2)

(Periodic law)

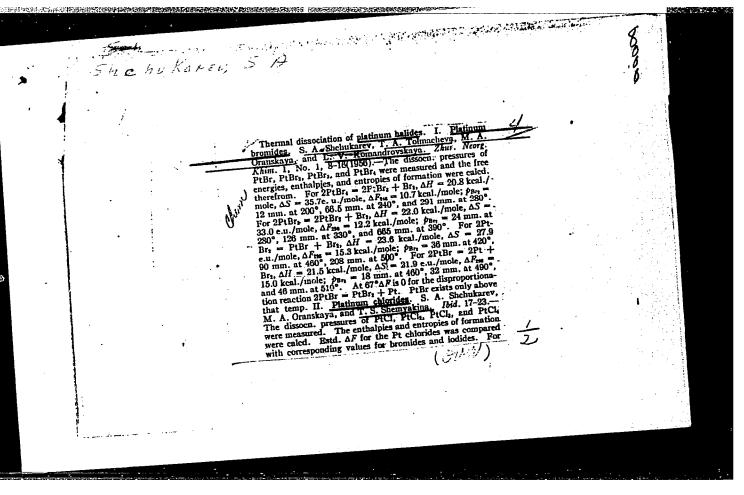


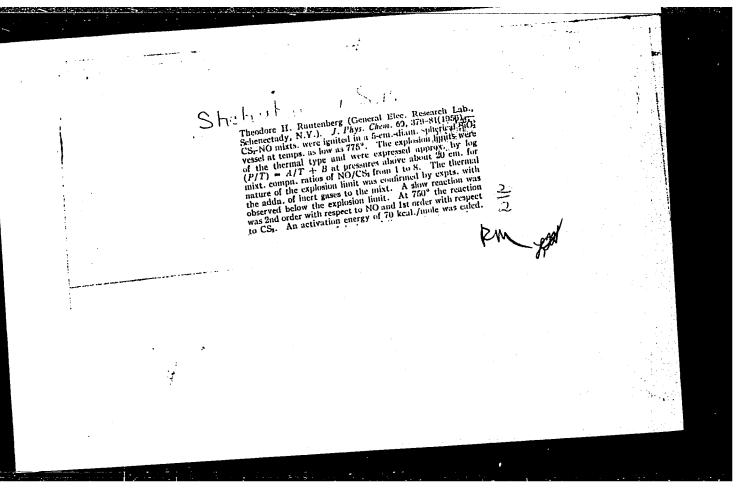






The study of camelar comcounts in solution by their beautions precise. 3. Stochulence and O. A. Johaneya.	Show	chuKarev, 5.	A		
absorption spectra. S. A. Sichukara and O. A. Longery.  Doklady Akod. Naukara and O. A. Longery.  Doklady Akod. Noukara and O. A. Longery.  Doklady Akod. Noukara and O. A. Longery.  Valent Ni and Co compds, were studied by a spectrophotometric method which allowed conclusions regarding complex formation in soln., and their forms. In the method, the max. absorption bands of the different complexes are singled out from the total absorption. The method consists in measuring the absorption-change curves of definite compds., combined with Bjerrum's formation-function method (C.A. 40, 4590). Chemically pure, anhyd. CoBr.,  NiBr., LiCl, and acetone were titrated in a visual vertical colorimeter having 0 aur-liters, with a transmission range of 4200-7500 A. The absorption bands were measured on a quartz differential spectrophotometer. The construction of the calibration curves is described, for the colorimetric titration, and how conclusions can be drawn from the curves				1	
		Rute Rute	beorption spectra. S. A. Sichukary and O. A. Lobaney. Ooklady Akad. Naukara L. Brown, 1986. The latent Ni and Co compds, were studied by a spectrophot netric method which allowed conclusions regarding correct formation in soln, and their forms. In the method make a basorption bands of the different complexes a measuring: the absorption-change curves of defining of the absorption-change curves of defining the combined with Bjerrum's formation-functionethod (C. A. 40, 4890). Chemically pure, anhyd. CoB ViBr., LiCl, and acetone were titrated in a visual verticolorimeter having 0 au-filters, with a transmission range 1200-7500 A. The absorption bands were measured on quartz differential spectrophotometer. The construction he calibration curves is described, for the colorimetric ration, and how conclusions can be drawn from the curv	di- o-line diding re- ite in in i	
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SHCHUKAREV, S.A.; CRANSKAYA, M.A.; SHEMYAKINA, T.S.

Thereal dossociation of platinum halides. Part 2. Platinum chlorides.
Zhur.neorg.khim.l no.1:17-23 '56.
(Platinum chlorides) (Dissociation)

S.A. :SHCHUKAREV

USSR/Physical Chemistry. Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

Ref Zhur-Khimiya, No 5, 1957, 14645 Abs Jour:

Author: S. A. Shchukarev, M. A. Oranskaya, T. A. Tolmacheva,

A. K. Yakhkind

Tnst

Title

Pressure of Saturated Vapor of Vanadium Tetrachloride

Zh. neorgan. khimii, 1956, 1, No 1, 30-35 Orig Pub:

The purpose of the work is to check the previously obtained data (Simons J. H., Powell M. G., J. Amer. Chem. Abstract:

Soc., 1945, 67. 75) and to enlarge the temperature range somewhat. VCl4 was prepared by chlorinating aluminothermic V. A scheme of the chlorination installation is attached, the method of work is described. The pressure of the saturated vapor PVCl1 was determined by the flow method permitting to compute the partial pressures of VCl4 and Cl2 separately. Dried and purified N2 was used as a gas inert in reference to  $VCl_{4}$ .  $P_{VCl_{4}}$  was determined in

Card 1/2

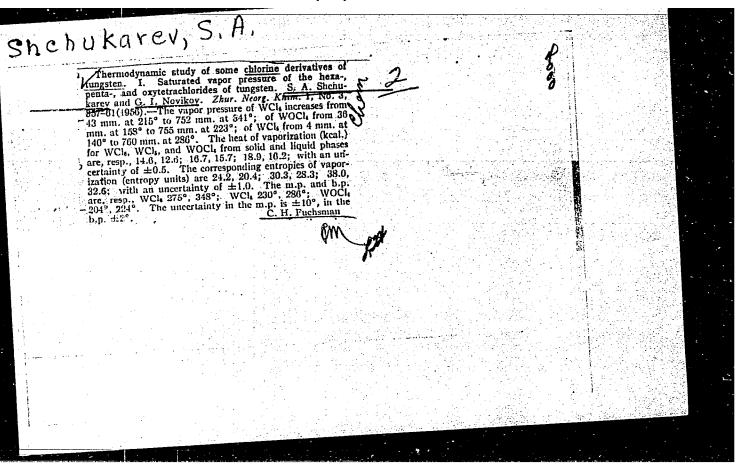
ussr/Physical Chemistry. Thermodynamics, That Analysis, Phase Transitions. Equilibria, Physical-Chemical Analysis, Phase Transitions.

Ref Zhur-Khimiya, No 5, 1957, 14645 Abs Jour:

the range from  $0^{\circ}$  to  $90^{\circ}$ . The following was found based on the experimental data:  $logPVC1_{4}(mm) = -(2174 / T) +$ 5.19;  $L = 9.9 \pm 0.1$  kcal per mole;  $\Delta S (vap.) = 23.8$  entr. Abstract: units. The checking of the data by the method of measuring the vapor pressure by boiling points within the range from 25 to 85° resulted in following values: log PvCl4 = = -(2185 / T) + 5.21; L = 10.0 + 0/1 kcal per mole,  $\Delta$  S  $(vap.) = 23.8 \pm 0.4$  entr. units. It follows from the concordance of the results of both these methods that VC14 in vapor form is a monomer.

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CIA-RDP86-00513R001548920008-4



SHCHUKAREV, S.A.; NOVIKOV, G.I.

Reduction of cerium trichloride by hydrogen. Zhur.neorg.khim.
(MLRA 9:10)
1 no.3:362-365 Mr '56.

(Cerium chlorides) (Reduction, Chemical)

